

REMARKS


The amendments to the specification to correct minor errors. Newly drafted Claims 27-37 provide an alternative definition of the invention from that of the parent application Serial No. 09/102,697 and are within the scope of the original invention.

This is a divisional application of U.S. Serial No. 09/102,697. It is requested that the references cited in the prosecution of the parent application be considered in the prosecution of this divisional application, and accordingly a form PTO 1449 listing these references is attached. The relevance of those references was set forth in the prosecution of U.S. Serial No. 09/102,697.

With regard to the *Yamauchi et al.* references, U.S. Patent No. 5,613,109 and U.S. Patent No. 5,771,334, basically an optical disk is disclosed in which information for managing reproduction routes, including branching of information recorded on the optical disk is recorded. Likewise, the *Roth* U.S. Patent No. 5,546,365 also teaches recording managing reproduction routes, including branching information on the optical disc. Neither of these references, however, discloses information on a type of route, for example, branch status information indicating whether a branch during a certain type of reproduction is possible.

[illegible]

PRICE AND GESS


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VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE SPECIFICATION:

A paragraph has been added before the paragraph beginning on page 1, line 8:

--RELATED APPLICATIONS

This is a divisional application of U.S. Serial No. 09/102,697, filed on June 22, 1998, which is a continuation of U.S. Serial No. 08/837,271 filed on April 11, 1997, and issued as U.S. Patent No. 5,771,334 on June 23, 1998.--

The paragraph beginning on page 8, line 1, has been amended as follows:

--In view of the difficulties when a plurality of titles are to be stored on a single optical disc, it has been suggested that AV functions should not be provided for any of the titles on a multi-title disc. However, in such a case, when viewing a same kind of title as was available for conventional video CD or laser disc, the user will not be able to make use of the AV functions to which he/she has become accustomed, thereby preventing jumps to a specified chapter number or reproduction time. This will not meet the user expectations for such reproduction and can [be] potentially lead to user dissatisfaction with this kind of equipment.—

The paragraph beginning on page 16, line 1, has been amended as follows:

--The shape of these pits is shown in Fig. 2D. As shown in Fig. 2D, the length of the pits varies between 0.4 [m] μm and 2.13 [m] μm , with the pits being aligned in a spiral with radial intervals of 0.74 [m] μm between them to form one spiral track.—

The paragraph beginning on page 17, line 16, has been amended as follows:

--Fig. 3A shows the arrangement when the spiral track is formed leading from the inner periphery to the outer periphery of the information layer 109, with a very large number of physical sectors being formed on this spiral track. In the present embodiments, a physical sector is [an] a curved area on the spiral track, and is the smallest unit of data which can be reliably retrieved.--

The paragraph beginning on page 19, line 3, has been amended as follows:

--The volume area is an area for storing many kinds of data, as well as for managing the physical sectors to which the volume area belongs as logical blocks. These logical blocks are identified by firmware using serial numbers which are assigned to consecutive physical sectors, with the first physical sector in the data recording area being assigned the number zero. The enlarged portion "b301" of Fig. [3A] 4A shows a group of logical blocks in the volume area. Here, the figures, #m, #m+1, #m+2 and #m+3 which are appended to the logical blocks in this circled area are the logical block numbers.—

The paragraph beginning on page 47, line 27, has been amended as follows:

--The title playback type includes a plurality of flags for showing the format of the various titles. The reference numerals [a141, a142, and a143] 9141, 9142, and 9143 shown in the figures indicate the "sequential single PGC identification flag", the "no branch flag" and the "no branch between titles" flag, with these flags being set at "On" or "Off" to indicate the format of each title.—

The paragraph beginning on page 52, line 25, has been amended as follows:

--Fig. [15] 17 is a block diagram showing the construction of the DVD player used in the present embodiment. The DVD player includes a drive mechanism 16, an optical pickup, a mechanism control unit 83, a signal processing unit 84, an AV decoding unit 85, a remote control

receiving unit 92, and a system control unit 93. AV decoding unit 85 comprises a signal separating unit 86, a video decoder 87, a sub-picture decoder 88, audio decoder 89, a state display unit 209, and a picture mixing unit 90.—

The paragraph beginning on page 54, line 3, has been amended as follows:

--The drive mechanism 16 [is] comprises a platter on which an optical disc is placed and spindle motor 81 for rotating the inserted optical disc. The platter can be moved in and out of the DVD player by means of an eject mechanism which is not shown in the drawing. The user places an optical disc on the platter when it has been projected forward outside the DVD player. After this, the platter is moved back into the DVD player so as to load the optical disc.---

The paragraph beginning on page 54, line 12, has been amended as follows:

--The mechanism control unit 83 controls the spindle motor 81 for rotating the disc and the mechanism made of the optical pickup for reading the signal from the disc and actuator 82 of the optical pickup. Specifically, the mechanism control unit 83 adjusts the motor speed according to a track position specified by system control unit 93. At the same time, it moves the optical pickup by controlling the actuator 82 of the pickup and, having detected a correct track by servo control, waits for a desired physical sector before reading signals continuously starting from a desired position.—

The paragraph beginning on page 81, line 23, has been amended as follows:

--The optical disc of the present invention can be used for storing both sequential video titles and interactive video titles, and so allows the distribution and retailing of optical titles which are on a multi-title disc.—

New Claims 27-37 have been added.